

Meenali Gupta

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OBJECTIVE

To work in a stimulating challenging & innovative position in the area of Embedded/Defense/Aerospace/Semi-Conductor/Electronics that would facilitate the maximum utilization and application of my broad skills and expertise in making a positive difference to the organization.

SYNOPSIS

- ✦ A competent professional with an overall experience of 2 years in the areas of Embedded System Design and Development.
- ✦ Good understanding of **Real-Time & Embedded Systems Application Development and Programming**.
- ✦ Experience with low level Driver Development and Debugging for **I2C, SPI, UART**.
- ✦ Experience and Good Knowledge in **Data Structures**.
- ✦ Hands on Experience in **C Programming Language**.
- ✦ Having working experience in **LINUX** like platforms.
- ✦ Have good knowledge in designing schematics using **ORCAD capture**.
- ✦ Have good experience in **Bash Scripting**.
- ✦ Dedicated and highly ambitious to achieve personal as well as organizational goals.
- ✦ Adroit at learning new concepts quickly, working well under pressure and communicating ideas clearly and effectively.

EDUCATION

Mtech in **Embedded Systems** from **BITS Pilani(WILP)** [2019-2021]

Btech in **Electronics and Communications** from **MBSCET Jammu** [2013-2017]

TECHNICAL SKILLS

Language	C, Linux Device Driver
Embedded Design Tool	Code Composer Studio, Orcad capture
Debugging Tools	Lauterbach-Trace 32
Protocols	SPI, I2C, UART,SNMP
Processors	MSP430, Beagle Bone(ARM Cortex -8),LPC 1768
GUI tools	Qt
Scripting Language	Bash
Hardware instruments	CRO, Signal generator,Spectrum analyzer, Multimeter
Operating systems	Linux,VxWorks,Windows

WORK EXPERIENCE

ALPHA DESIGN TECHNOLOGIES PVT LTD. Bangalore as System Engineer (Reporting to Manager)

(Nov'17 – Present)

Key Deliverable:

- Responsible for Embedded based Designs, Implementation, Testing and troubleshooting.
- Proficiency in C programming for Embedded Solutions.
- Accommodate well in team or individually to achieve goals and objectives.
- Understanding requirements and resolving any potential issue both in project and in the productive environment
- Working across organization for solving issues and developing features.
- Working in application development in Vxworks RTOS.
- Experience in Application development using C languages on windows platform and Visual studio 2008

PROJECTS

Project **EDUCATION KIT**
Processor

MSP430,ARM-CORTEX A8

Role Board Bring up,and Application Development

Description The objective of the project was to do make a user friendly GUI for college kids so that they can do QPSK modulation and can tune to different frequencies using AD9361.

Responsibilities ☐ Board Bring-up the custom board (MYD-Arm-A8)
☐ Development of ARM environment using linux
☐ Enabled different drivers in dtb and compiling kernel.
☐ Involved in GUI for making application.
☐ Development of UART protocol between ARM335x and MSP430.
☐ Unit testing.

Project **SOFTWARE DEFINED RADIO**(Still in progress for development for indigenous waveform for Alpha SDR)

Processor **ARM-M3,GPP(DM8148)**

Description Software Defined Radio is a highly advanced radio system used for communication in defense domain. It is used as the means of communication across different users in an appropriate manner so as to avoid network contingency and perform robustly in mission critical situations. The communication protocols and the platform used in software defined radio need to be secure so that breach of security never happens. It can be used by either of the Land, Naval or Air forces. The algorithm employed guarantees proper transmission and reception of data/messages.

Responsibilities ☐ Development of SNMP protocol.
● Developing DSPBIOS application in ARM Side to communicate using DSPBIOS.
● Design and implementation of Network layer for ad-hoc master less network with a combination of reactive and proactive protocol (proprietary protocol) to achieve multicast and multi network functionality.